

WORKSHEET FOR CALCULATION OF ST. JIC COLUMN WELLHEAD PRESSURE (P_w)

C-122D
Revised 9-1-65

COMPANY YPC LEASE hechugville Canyon Unit WELL NO. 4 DATE 5-22-80

LOCATION: Unit O Section 8 Township 24S Range 24E

L 10085 H 10085 L/H 1.000 G 0.609 % CO₂ 2.70 % N₂ 0.34 % H₂S N/I
 20 (23.47) 478 d 2.4486 F₁ 0.009793 GH 6141.8 P_{CT} 682 T_{CT} 356
 5 1/2 - 10085 519455 60465

LINE	1	2	3	4					
1 Q _m	51	1	2	3	4				
2 T _w (W.H. °R)	—	0.109	0.164	0.236	0.318				
3 T _s (B.H. °R)	539	543	545	546	547				
4 T = (T _w + T _s)	619	617	616	615	614				
5 Z (Est.)	578	580	580.5	580.5	580.5				
6 TZ	18215	1840	1831	0.830	0.557				
7 GH/TZ	4741.83	487.20	482.40	481.82	497.19				
8 e ^s (Table XIV)	12.935	12.606	12.732	12.747	12.346				
9 1-e ^s (Table XIV)	1.6243	1.6044	1.6120	1.6129	1.5888				
10 P ₁	3053.2	2733.2	2471.2	2044.2	1406.2				
11 P ₁ 2/1000	9.222.0	7470.4	6106.8	4178.7	1997.4				
12 F ₁ (Table XV)	0.48526	0.47274	0.47745	0.47802	0.46296				
13 F _c = F ₁ TZ	4.7911	4.7241	4.718	4.872	4.872				
14 F _c Q _m	0.52	0.775	1.114	1.549	1.549				
15 L/H (F _c Q _m) ²	0.27	0.60	1.24	2.40	2.40				
16 F _w = L/H (F _c Q _m) ² (1-e ^s)	0.1	0.2	0.5	0.9	0.9				
17 P _w ² = P ₁ ² + F _w	7470.5	6107.0	4179.2	1978.3	1978.3				
18 P _s ² = e ^s P _w ²	15141.7	11985.7	9844.5	6740.6	3143.1				
19 P _s	3891.2	3462.0	3137.6	2596.3	1772.9				
20 P = (P ₁ + P _s)	3472.2	3097.6	2804.4	2320.2	1589.5				
21 P ₁ = (P/P _{CT})	5.091	4.542	4.112	3.402	2.331				
22 T ₁ = (T/T _{CT})	1.6235	1.629	1.630	1.630	1.630				
23 Z (Table XI)	1.825	1.840	0.831	0.830	0.857				